



Create better life with green energy



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Manual

Integrated Home ESS



Product Features

- 

All-in-one design for convenient installation.
- 

Web/APP interaction with rich content, allowing remote control.
- 

Fast charging and ultra-long battery life.
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Intelligent temperature control, multiple safety protection and fire protection functions.
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Concise appearance design, integrated with modern home furnishings.
- 

Compatible with multiple working modes.

Project	Parameters	
Battery parameters		
Model	Hope-T 5kW/5.12kWh	Hope-T 5kW/10.24kWh
Power	5.12kWh	10.24kWh
Rated voltage	51.2V	
Operating voltage range	40V~58.4V	
Type	LFP	
Communications	RS485/CAN	
Operating temperature range	Charge: 0°C~55°C	
	Discharge: -20°C~55°C	
Max charge/discharge current	100A	
IP protection	IP65	
Relative humidity	10%RH~90%RH	
Altitude	≤2000m	
Installation	Wall-mounted	
Dimensions (W×D×H)	480mm× 140mm × 475mm	480mm× 140mm × 970mm
Weight	48.5kg	97kg
Inverter parameters		
Max PV access voltage	500Vdc	
Rated DC operating voltage	360Vdc	
Max PV input power	6500W	
Max input current	23A	
Rated input current	16A	
MPPT operating voltage range	90Vdc~430Vdc	
MPPT lines	2	
AC input	220V/230Vac	
Output voltage frequency	50Hz/60Hz (automatic detection)	
Output voltage	220V/230Vac	
Output voltage waveform	Pure sine wave	
Rated output power	5kW	
Output peak power	6500kVA	
Output voltage frequency	50Hz/60Hz (optional)	
On gird and off grid switching [ms]	≤10	
Efficiency	0.97	
Weight	20kg	
Certificates		
Security	IEC62619,IEC62040,VDE2510-50,CEC,CE	
EMC	IEC61000	
Transport	UN38.3	

Integrated Commercial and Industrial ESS



Product Features

- Safe and reliable
 - Full-range cell temperature collection + AI predictive monitoring to warn of abnormalities and intervene in advance.
 - Two-stage overcurrent protection, temperature and smoke detection + PACK-level and cluster-level composite fire protection.
 - Multiple layers of thermal insulation and intelligent temperature control create an ideal operating environment for batteries.
- Flexible and stable
 - Customized operation strategies are more tailored to load characteristics and power consumption habits.
 - Multi-machine parallel connection, flexible combination of AC and DC integration.
 - Adapt to multiple inverters and flexibly expand into high-power home energy storage systems.
- Intelligent operation and maintenance
 - Intelligent AI technology, intelligent energy management system (EMS).
 - Dialogue-based fault query and status monitoring make equipment operation simple and transparent.
 - Professional operation and maintenance along with monitoring software provide escort to ensure the safety, stability and reliability of the equipment.

Product Parameters		
Model	ICESS-T 30-20/40/A	ICESS-T 39-30/61/A
AC Side Parameters (Grid-Tied)		
Apparent Power	22kVA	33kVA
Rated Power	20kW	30kW
Rated Voltage	400Vac	
Voltage Range	400Vac±15%	
Rated Current	29A	43A
Frequency Range	50/60Hz±5Hz	
Power Factor	0.99	
THDi	≤3%	
AC System	Three-phase five-wire system	
AC Side Parameters (Off-Grid)		
Rated Power	20kW	30kW
Rated Voltage	380Vac	
Rated Current	30A	45A
Rated Frequency	50/60Hz	
THDu	≤5%	
Overload Capacity	110%（10min）, 120%（1min）	
Battery Side Parameters		
Battery Capacity	40.96KWh	61.44KWh
Battery Type	Lithium Iron Phosphate	
Rated Voltage	409.6V	614.4V
Voltage Range	371.2V~454.4V	556.8V~681.6V
Basic Characteristics		
AC/DC Startup Function	Supported	
Islanding Protection	Supported	
Forward/Reverse Switching Time	≤10ms	
System Efficiency	≥85%	
Protection Functions	Over/Under Voltage, Overcurrent, Over/Under Temperature, Islanding, SOC Too High/Low, Low Insulation Impedance, Short Circuit Protection, etc.	
Operating Temperature	-30℃~+55℃	
Cooling Method	Air Cooling + Smart Air Conditioning	
Relative Humidity	≤95%RH, No Condensation	
Altitude	3000m	
IP Protection Level	IP54	
Noise	≤70dB	
Communication Methods	LAN、RS485、4G	
Dimensions (mm)	800*1000*1800	800*1000*2350

Integrated Commercial and Industrial ESS



Product Features

- **Safe and reliable**
 - Full-range cell temperature collection + AI predictive monitoring to alert abnormalities and intervene in advance.
 - Two-stage overcurrent protection, temperature and smoke detection + PACK-level and cluster-level composite fire protection.
 - Independent battery space + intelligent temperature control system enables batteries to adapt to harsh and complex environments.
- **Flexible and stable**
 - Customized operation strategies are more tailored to load characteristics and power consumption habits.
 - 125kW high-efficiency PCS + 314Ah cell configuration for large-capacity systems.
 - Intelligent photovoltaics-energy storage integration system, with arbitrary selection and flexible expansion at any time.
- **Intelligent operation and maintenance**
 - Intelligent AI technology and intelligent energy management system (EMS) improve equipment work efficiency.
 - QR code scanning for fault query and data monitoring, making equipment data status clearly displayed.
 - Professional operation and maintenance together with monitoring software ensure the safety, stability and reliability of the equipment.

Product Parameters	
Model	ICESS-T 0-125/257/A
AC Side Parameters (Grid-Tied)	
Apparent Power	137.5kVA
Rated Power	125kW
Rated Voltage	400Vac
Voltage Range	400Vac±15%
Rated Current	180A
Frequency Range	50/60Hz±5Hz
Power Factor	0.99
THDi	≤3%
AC System	Three-phase five-wire system
AC Side Parameters (Off-Grid)	
Rated Power	125kW
Rated Voltage	380Vac
Rated Current	190A
Rated Frequency	50/60Hz
THDu	≤5%
Overload Capacity	110% (10min) , 120% (1min)
Battery Side Parameters	
Battery Capacity	257.228KWh
Battery Type	Lithium Iron Phosphate
Rated Voltage	819.2V
Voltage Range	742.2V~921.6V
Basic Characteristics	
AC/DC Startup Function	Supported
Islanding Protection	Supported
Forward/Reverse Switching Time	≤10ms
System Efficiency	≥89%
Protection Functions	Over/Under Voltage, Overcurrent, Over/Under Temperature, Islanding, SOC Too High/Low, Low Insulation Impedance, Short Circuit Protection, etc.
Operating Temperature	-30℃~+55℃
Cooling Method	Air Cooling + Smart Air Conditioning
Relative Humidity	≤95%RH, No Condensation
Altitude	3000m
IP Protection Level	IP54
Noise	≤70dB
Communication Methods	LAN、RS485、4G
Dimensions (mm)	1820*1254*2330

Liquid-cooled Integrated Commercial and Industrial ESS



Product Features

- **Safe and reliable**
 - Independent liquid cooling system + compartment isolation, with high protection and safety.
 - Full-range cell temperature collection + AI predictive monitoring to warn of anomalies and intervene in advance.
 - Two-stage overcurrent protection, temperature and smoke detection + PACK-level and cluster-level composite fire protection.
- **Flexible and stable**
 - Customized operation strategies are more tailored to load characteristics and power consumption habits.
 - Multi-machine parallel centralized control and management, hot access and hot withdrawal technologies to reduce the impact of failures.
 - Intelligent photovoltaic-storage integration system, with optional configurations and flexible expansion at any time.
- **Intelligent operation and maintenance**
 - Intelligent AI technology and an intelligent energy management system (EMS) enhance equipment operational efficiency.
 - QR code scanning for fault query and data monitoring makes the data status of equipment clearly displayed.
 - Professional operation and maintenance, escorted by monitoring software, ensure the safety, stability, and reliability of equipment.

Product Parameters	
Model	ICES-T 0-130/261/L
AC Side Parameters (Grid-Tied)	
Apparent Power	143kVA
Rated Power	130kW
Rated Voltage	400Vac
Voltage Range	400Vac±15%
Rated Current	188A
Frequency Range	50/60Hz±5Hz
Power Factor	0.99
THDi	≤3%
AC System	Three-phase five-wire system
AC Side Parameters (Off-Grid)	
Rated Power	130kW
Rated Voltage	380Vac
Rated Current	197A
Rated Frequency	50/60Hz
THDu	≤5%
Overload Capacity	110% (10min) , 120% (1min)
Battery Side Parameters	
Battery Capacity	261.248KWh
Battery Type	Lithium Iron Phosphate
Rated Voltage	832V
Voltage Range	754V~936V
Basic Characteristics	
AC/DC Startup Function	Supported
Islanding Protection	Supported
Forward/Reverse Switching Time	≤10ms
System Efficiency	≥89%
Protection Functions	Over/Under Voltage, Overcurrent, Over/Under Temperature, Islanding, SOC Too High/Low, Low Insulation Impedance, Short Circuit Protection, etc.
Operating Temperature	-30°C~+55°C
Cooling Method	Liquid Cooling
Relative Humidity	≤95%RH, No Condensation
Altitude	3000m
IP Protection Level	IP54
Noise	≤70dB
Communication Methods	LAN、RS485、4G
Dimensions (mm)	1000*1400*2350

Split-type Multi-energy Fusion Power Supply System

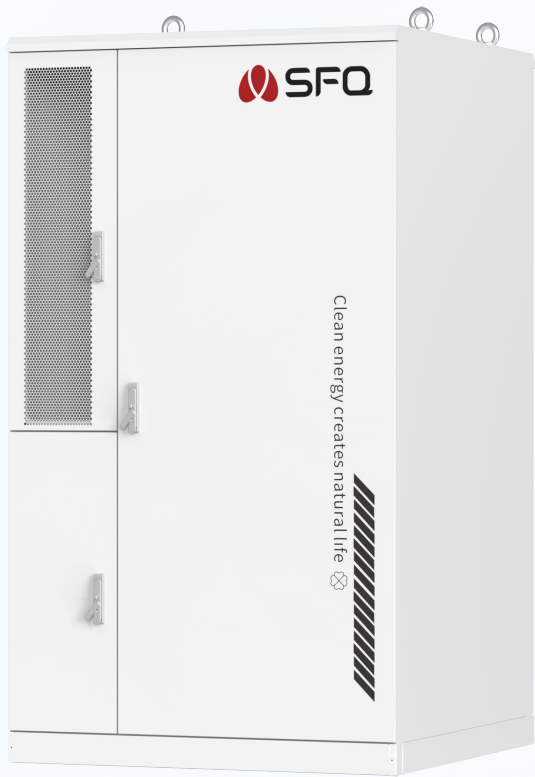


Product Features

- **Safe and reliable**
 - Independent cabinet-type battery system, with a high-protection-level design of one cabinet per cluster.
 - Temperature control for each cluster and fire protection for each cluster enable precise regulation of the environmental temperature.
 - Full-range cell temperature collection + AI predictive monitoring to warn of anomalies and intervene in advance.
- **Flexible and stable**
 - Multiple battery cluster systems in parallel with centralized power management can achieve cluster-by-cluster management or centralized parallel management.
 - Multi-energy and multi-function integration technology plus an intelligent management system enable flexible and friendly collaboration among devices in composite energy systems.
 - Flexible configuration of battery systems, flexible power selection, and adaptable on-site installation environments ensure stable operation for customized requirements.
- **Intelligent operation and maintenance**
 - Intelligent AI technology and an intelligent energy management system (EMS) enhance equipment work efficiency.
 - Intelligent microgrid management technology and random fault withdrawal strategy ensure stable system output.
 - Professional operation and maintenance, escorted by monitoring software, ensure the safety, stability, and reliability of equipment.

Power Supply Cabinet Product Parameters					
Parameter Category	30kW ICS-AC XX-30/54	60kW ICS-AC XX-60/54	100kW ICS-AC XX-100/54	125kW ICS-AC XX-125/54	250kW ICS-AC XX-250/54
AC Side Parameters (Grid-Tied)					
Apparent Power	33kVA	66kVA	110kVA	137.5kVA	275kVA
Rated Power	30kW	60kW	100kW	125kW	250kW
Rated Voltage	400Vac				
Voltage Range	400Vac±15%				
Rated Current	43A	87A	144A	180A	360A
Frequency Range	50/60Hz±5Hz				
Power Factor (PF)	0.99				
THDi	≤3%				
AC System	Three-phase five-wire system				
AC Side Parameters (Off-Grid)					
Rated Power	30kW	60kW	100kW	125kW	250kW
Rated Voltage	380Vac±15%				
Rated Current	45A	91A	152A	190A	380A
Rated Frequency	50/60Hz±5Hz				
THDu	≤5%				
Overload Capacity	110%（10min）, 120%（1min）				
DC Side Parameters (Battery, PV)					
PV Open Circuit Voltage	700V	700V	700V	700V	700V
PV Voltage Range	300V~670V	300V~670V	300V~670V	300V~670V	300V~670V
Rated PV Power	30~90kW	60~120kW	100~200kW	120~240kW	240~300kW
Maximum Supported PV Power	1.1 to 1.4 times				
Number of PV MPPTs	1 to 20 channels				
Battery Voltage Range	300V~1000V	580V~1000V	580V~1000V	580V~1000V	580V~1000V
BMS Three-Level Display and Control	Available				
Maximum Charging Current	100A	88A	165A	216A	432A
Maximum Discharging Current	100A	88A	165A	216A	432A
Basic Parameters					
Cooling Method	Forced air cooling				
Communication Interface	LAN/RS485				
IP Protection Level	IP54				
Operating Ambient Temperature Range	-25℃~-+55℃				
Relative Humidity	≤95%RH, no condensation				
Altitude	3000m				
Noise	≤70dB				
Human-Machine Interface	Touch screen				
Dimensions (mm)	620*1000*2350	620*1000*2350	620*1000*2350	620*1000*2350	1200*1000*2350

Split-type Multi-energy Fusion Energy Storage System



Product Features

- **Safe and reliable**
 - Independent cabinet-type battery system, with a high-protection-level design of one cabinet per cluster.
 - Temperature control for each cluster and fire protection for each cluster enable precise regulation of the environmental temperature.
 - Full-range cell temperature collection + AI predictive monitoring to warn of anomalies and intervene in advance.
- **Flexible and stable**
 - Multiple battery cluster systems in parallel with centralized power management can achieve cluster-by-cluster management or centralized parallel management.
 - Multi-energy and multi-function integration technology plus an intelligent management system enable flexible and friendly collaboration among devices in composite energy systems.
 - Flexible configuration of battery systems, flexible power selection, and adaptable on-site installation environments ensure stable operation for customized requirements.
- **Intelligent operation and maintenance**
 - Intelligent AI technology and an intelligent energy management system (EMS) enhance equipment work efficiency.
 - Intelligent microgrid management technology and random fault withdrawal strategy ensure stable system output.
 - Professional operation and maintenance, escorted by monitoring software, ensure the safety, stability, and reliability of equipment.

Battery Cabinet Product Parameters				
Parameter Category	40kWh ICS-DC 40/A/10	241kWh ICS-DC 241/A/10	417kWh ICS-DC 417/L/10	417kWh ICS-DC 417/L/15
Cell Parameters				
Cell Specification	3.2V/100Ah	3.2V/314Ah	3.2V/314Ah	3.2V/314Ah
Battery Type	Lithium Iron Phosphate			
Battery Module Parameters				
Grouping Form	1P16S		1P52S	
Rated Voltage	51.2V		166.4V	
Rated Capacity	5.12kWh	16.076kWh	52.249kWh	
Rated Charge/Discharge Current	50A	157A	157A	
Rated Charge/Discharge Rate	0.5C			
Cooling Method	Air cooling			
Battery Cluster Parameters				
Grouping Form	1P128S	1P240S	2P208S	1P416S
Rated Voltage	409.6V	768V	665.6V	1331.2V
Rated Capacity	40.98kWh	241.152kWh	417.996kWh	417.996kWh
Rated Charge/Discharge Current	50A	157A	157A	
Rated Charge/Discharge Rate	0.5C			
Cooling Method	Air cooling			
Fire Protection	Perfluorohexanone (optional)		Perfluorohexanone + Aerosol (optional)	
Smoke Sensor, Temperature Sensor	1 smoke sensor, 1 temperature sensor			
Basic Parameters				
Communication Interface	LAN/RS485/CAN			
IP Protection Level	IP20/IP54 (optional)			
Operating Ambient Temperature Range	-25°C~-+55°C			
Relative Humidity	≤95%RH, no condensation			
Altitude	3000m			
Noise	≤70dB			
Dimensions (mm)	800*800*1600	1250*1000*2350	1350*1400*2350	1350*1400*2350

Container-type Multi-Energy Fusion Microgrid System



Product Features

- **Safe and reliable**
 - Standard container design + independent compartment isolation, with high protection and safety.
 - Full-range cell temperature collection + AI predictive monitoring to warn of anomalies and intervene in advance.
 - Three-level overcurrent protection, temperature and smoke detection + PACK-level and cluster-level composite fire protection.
- **Flexible and stable**
 - Customized operation strategies and friendly energy collaboration make it more suitable for load characteristics and power consumption habits.
 - Large-capacity battery systems and high-power energy supply are suitable for more scenarios.
 - Intelligent integration system of wind, solar, diesel (gas), storage and grid, with optional configuration and scalable at any time.
- **Intelligent operation and maintenance**
 - Intelligent AI technology and an intelligent energy management system (EMS) enhance equipment work efficiency.
 - Intelligent microgrid management technology and random fault withdrawal strategies ensure stable system output.
 - Professional operation and maintenance, escorted by monitoring software, ensure the safety, stability, and reliability of the equipment.

Product Parameters	
Equipment Model	SCESS-T 500-500/1205/A
AC Side Parameters (Grid-Connected)	
Apparent Power	550kVA
Rated Power	500kW
Rated Voltage	400Vac
Voltage Range	400Vac±15%
Rated Current	721A
Frequency Range	50/60Hz±5Hz
Power Factor	0.99
THDi	≤3%
AC System	Three-phase five-wire system
AC Side Parameters (Off-Grid)	
Rated Power	500kW
Rated Voltage	380Vac
Rated Current	760A
Rated Frequency	50/60Hz
THDu	≤5%
Overload Capacity	110% (10min) , 120% (1min)
DC Side Parameters (Battery, PV)	
PV Open Circuit Voltage	700V
PV Voltage Range	300V~670V
Rated PV Power	30~90kW
Maximum Supported PV Power	1.1 to 1.4 times
Number of PV MPPTs	1 to 20 channels
Battery Voltage Range	696V~864V
BMS Three-Level Display and Control	Available
Maximum Charging Current	785A
Maximum Discharging Current	785A
Maximum Number of Battery Clusters	5 clusters
Basic Characteristics	
Cooling Method	Forced air cooling
Communication Interface	LAN/CAN/RS485
IP Protection Level	IP54
Operating Ambient Temperature Range	-25℃~+55℃
Relative Humidity	≤95%RH, no condensation
Altitude	3000m
Noise	≤70dB
Human-Machine Interface	Touch screen
Dimensions (mm)	6058*2438*2896

Container-type Multi-Energy Fusion Microgrid System



Product Features

- **Safe and reliable**
 - Standard container design + independent compartment isolation, with high protection and safety.
 - Full-range cell temperature collection + AI predictive monitoring to warn of anomalies and intervene in advance.
 - Three-level overcurrent protection, temperature and smoke detection + PACK-level and cluster-level composite fire protection.
- **Flexible and stable**
 - Customized operation strategies and friendly energy collaboration make it more suitable for load characteristics and power consumption habits.
 - Large-capacity battery systems and high-power energy supply are suitable for more scenarios.
 - Intelligent integration system of wind, solar, diesel (gas), storage and grid, with optional configuration and scalable at any time.
- **Intelligent operation and maintenance**
 - Intelligent AI technology and an intelligent energy management system (EMS) enhance equipment work efficiency.
 - Intelligent microgrid management technology and random fault withdrawal strategies ensure stable system output.
 - Professional operation and maintenance, escorted by monitoring software, ensure the safety, stability, and reliability of the equipment.

Product Parameters	
Equipment Model	SCESS-T 500-500/2089/L
AC Side Parameters (Grid-Connected)	
Apparent Power	550kVA
Rated Power	500kW
Rated Voltage	400Vac
Voltage Range	400Vac±15%
Rated Current	721A
Frequency Range	50/60Hz±5Hz
Power Factor	0.99
THDi	≤3%
AC System	Three-phase five-wire system
AC Side Parameters (Off-Grid)	
Rated Power	500kW
Rated Voltage	380Vac
Rated Current	760A
Rated Frequency	50/60Hz
THDu	≤5%
Overload Capacity	110% (10min) , 120% (1min)
DC Side Parameters (Battery, PV)	
PV Open Circuit Voltage	700V
PV Voltage Range	300V~670V
Rated PV Power	30~90kW
Maximum Supported PV Power	1.1 to 1.4 times
Number of PV MPPTs	1 to 20 channels
Battery Voltage Range	603.2V~748.8V
BMS Three-Level Display and Control	Available
Maximum Charging Current	1570A
Maximum Discharging Current	1570A
Maximum Number of Battery Clusters	10 clusters
Basic Characteristics	
Cooling Method	Air cooling + liquid cooling
Communication Interface	LAN/CAN/RS485
IP Protection Level	IP54
Operating Ambient Temperature Range	-25℃~+55℃
Relative Humidity	≤95%RH, no condensation
Altitude	3000m
Noise	≤70dB
Human-Machine Interface	Touch screen
Dimensions (mm)	6058*2438*2896

Container-type Multi-Energy Integrated Power Supply System



Product Features

- **Safe and reliable**
 - Standard container design with high protection level, adapting to various harsh environments.
 - Multi-level energy protection, predictive fault detection, and advance disconnection improve equipment reliability.
 - With the integration of intelligent AI technology and multiple fault, the system becomes safe and reliable.
- **Flexible and stable**
 - Intelligent integrated system of wind, solar, diesel (gas), storage and grid, with optional configurations and scalable at any time.
 - Combined with local resources, maximize the utilization of multiple energy accesses to enhance energy collection capabilities.
 - Multi-energy module combination with centralized power management enables cluster-level and source-level management.
- **Intelligent operation and maintenance**
 - Intelligent AI technology and an intelligent energy management system (EMS) improve equipment operational efficiency.
 - Intelligent microgrid management technology and random fault withdrawal strategies ensure stable system output.
 - Professional operation and maintenance, escorted by monitoring software, ensure the equipment is safe, stable, and reliable.

Power Container Product Parameters	
Equipment Model	1000kW ICS-AC XX-1000/54
AC Side Parameters (Grid-Connected)	
Apparent Power	1100kVA
Rated Power	1000kW
Rated Voltage	400Vac
Voltage Range	400Vac±15%
Rated Current	1443A
Frequency Range	50/60Hz±5Hz
Power Factor (PF)	0.99
THDi	≤3%
AC System	Three-phase five-wire system
AC Side Parameters (Off-Grid)	
Rated Power	1000kW
Rated Voltage	380Vac±15%
Rated Current	1519A
Rated Frequency	50/60Hz±5Hz
THDU	≤5%
Overload Capacity	110% (10min) , 120% (1min)
DC Side Parameters (Battery, PV)	
PV Open Circuit Voltage	700V
PV Voltage Range	300V~670V
Rated PV Power	100~1000kW
Maximum Supported PV Power	1.1 to 1.4 times
Number of PV MPPTs	8 to 80 channels
Battery Voltage Range	300V~1000V
BMS Three-Level Display and Control	Available
Maximum Charging Current	1470A
Maximum Discharging Current	1470A
Basic Parameters	
Cooling Method	Forced air cooling
Communication Interface	LAN/RS485
IP Protection Level	IP54
Operating Ambient Temperature Range	-25°C~+55°C
Relative Humidity	≤95%RH, no condensation
Altitude	3000m
Noise	≤70dB
Human-Machine Interface	Touch screen
Dimensions (mm)	3029*2438*2896

Energy Storage and Step-up Integrated System



Product Features

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Perfectly matches the 5MWh system, reducing the number of energy storage units and floor space.
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It maintains full capacity at a ambient temperature of 50°C and is fearless of desert, Gobi and barren areas.
- 

The system capacity can be flexibly expanded to 6.9MW.
- 

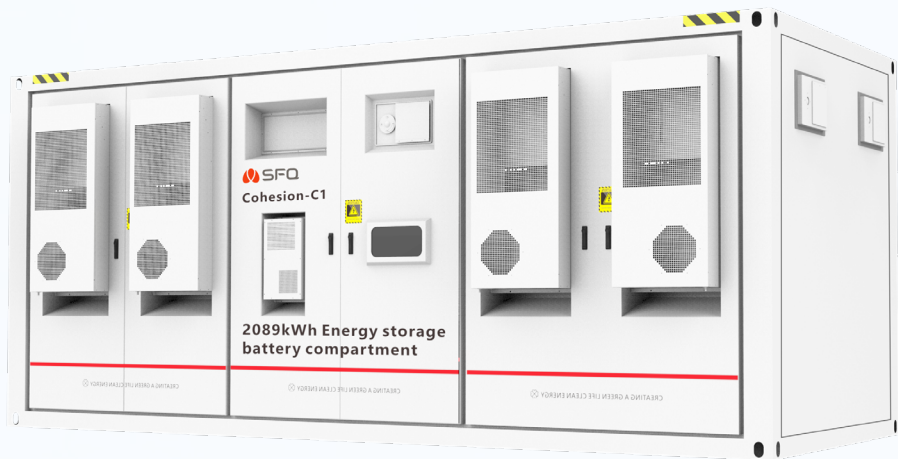
Dry-type transformers or oil-type transformers are optional, with customized design for high and low voltage.
- 

Unified external communication interface for quick debugging.
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Perfect electrical protection fully guarantees the safety of the battery system.

Power Container Product Parameters		
Models	2500kW ICS-AC XX-1000/54	5000kW ICS-AC XX-1000/54
DC Side Parameters		
Rated Power	2500kW	5000kW
Maximum DC Bus Voltage	1500V	
Maximum DC Current	1375A*2	2750A*2
DC Voltage Operating Range	1000V ~ 1500V	
Number of DC Inputs	2	2/4
AC Side Parameters		
Rated Power	2500kW	5000kW
Maximum Output Power	2750kW	5500kW
Isolation Method	Transformer isolation	
Reactive Power Range	0 ~ 2500kVar	0 ~ 5000kVar
Grid-Connected Operation Parameters		
Rated Grid Voltage	6kV / 10kV / 35kV	
Rated Grid Frequency	50Hz / 60Hz	
Allowed Grid Frequency	47Hz ~ 53Hz / 57Hz ~ 63Hz	
Total Harmonic Distortion of Current	0.03	
Power Factor	-1 to 1	
Transformer Parameters		
Rated Capacity	2500kVA	5000kVA
Transformer Type	Dry-type / Oil-immersed transformer	
Low Voltage/Medium Voltage (LV/MV)	0.69 / (6-35) kV	
No-Load Loss	Meets national standard	
Load Loss	Meets national standard	
No-Load Current	Meets national standard	
Impedance	Meets national standard	
System Parameters		
Allowed Ambient Temperature	-30°C to +60°C (>40°C derating for 2500kW)	-30°C to +60°C (>50°C derating for 5000kW)
Allowed Relative Humidity	0 ~ 100%	
Allowed Altitude	≤4000m (derating above 2000m)	
Protection Level	IP54	
Battery Communication Interface	RS485 / CAN	
EMS Communication Interface	Ethernet interface	
Communication Protocol	Modbus RTU / Modbus TCP / IEC104 / IEC61850	
Compliance Standard	GB/T 34120, GB/T 34133, GB/T 36547	
Grid Support	High and low voltage ride-through, frequency regulation, voltage regulation	

Large-scale Container Energy Storage System



Product Features

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Independent liquid cooling system + cluster-level temperature control technology + compartment isolation, with high protection and safety.
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Full-range cell temperature collection + AI predictive monitoring to alert abnormalities and intervene in advance.
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Cluster-level temperature and smoke detection + PCAK-level and cluster-level composite fire protection.
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Customized busbar output to meet the customization of various PCS access and configuration schemes.
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Standard box design with high protection level and high anti-corrosion level, stronger adaptability and stability.
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Professional operation and maintenance, as well as monitoring software, ensure the safety, stability and reliability of the equipment.

Battery Container Product Parameters				
Equipment Models	1929kWh ICS-DC 1929/A/10	2089kWh ICS-DC 2089/A/15	2507kWh ICS-DC 2507/L/15	5015kWh ICS-DC 5015/L/15
Cell Parameters				
Cell Specification	3.2V/314Ah			
Battery Type	Lithium iron phosphate			
Battery Module Parameters				
Grouping Form	1P16S	1P26S	1P26S	1P52S
Rated Voltage	51.2V	83.2V	83.2V	166.4V
Rated Capacity	16.076kWh	26.124kWh	26.124kWh	52.249kWh
Rated Charge/Discharge Current	157A			
Rated Charge/Discharge Rate	0.5C			
Cooling Method	Air cooling		Liquid cooling	
Battery Cluster Parameters				
Grouping Form	8P240S	5P416S	6P416S	12P416S
Rated Voltage	768V	1331.2V	1331.2V	1331.2V
Rated Capacity	1929.216kWh	2089.984kWh	2507.980kWh	5015.961kWh
Rated Charge/Discharge Current	1256A	785A	942A	1884A
Rated Charge/Discharge Rate	0.5C			
Cooling Method	Air cooling		Liquid cooling	
Fire Protection	Perfluorohexanone (optional)			
Smoke and Temperature Sensors	Each cluster: 1 smoke sensor, 1 temperature sensor			
Basic Parameters				
Communication Interface	LAN/RS485/CAN			
IP Protection Level	IP54			
Operating Ambient Temperature Range	-25℃~-+55℃			
Relative Humidity	≤95%RH, no condensation			
Altitude	3000m			
Noise	≤70dB			
Dimensions (mm)	6058*2438*2896	6058*2438*2896	6058*2438*2896	6058*2438*2896